

1/9

1 MSVDEICENTKMGREYALLGNYETSLVYYQGVLQQIQKLL
41 TSVHEPQRKHQWQTIRQELSQEYEHVKNI~~TK~~TLNGFKSEP
81 AAEPAPNGRAAPFSHHQAAKPAAAE~~PARD~~PDVWPPTP
121 VDHRPSPPYQRAARKDPPRRSEPSK~~PAN~~RAPGNDRGGRGP
161 SDRRGDARSGGGGRGGARGSDKDKNRGGKSDKDKKAPSGE
201 EGDEKKFDPAGYDKDLVENLERDIVORNPNVHWADIAGLT
241 EAKRLLEEAVVLPLWMPDYFKGIRRPWKGVLMGPPGTGK
281 TMLAKAVATECGTTFFNVSSASLTSKYHGESEKLVRLFE
321 MARFYAPSTIFIDEIDSICSKRGTGSEHEASRRVKSELLI
361 OMDGVSGPSAGEESSKMVMVLAATNFPWDIDEALRRRLEK
401 RIYIPLPEIDGREQLLRINLKEVPLADDIDLKSIAEKMDG
441 YSGADITNVCRDASMMAMRRRIOGLRPEEIRHIPKEELNQ
481 PSTPADFLLALQKVSKSVGKEDLVKYMAMWMEEFGSV

FIG. 1A.

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p60	231	VHWAD	IAGL	TEAR	RLLE	DAVVL	ELWMD	YFKG	IFFPW	KGVM	MGPP	GTCG
mei-1	190	MSLDD	IIGH	MDVQ	QOVL	HEAVT	LLVPE	FFQGL	RSPW	KAMV	LAGP	PPTG
Suglp	145	STYDM	VGGL	TKQI	KEI	KEVIE	LEVKH	PEIFES	LGIA	QPKG	VILM	GPPG
ftsh	149	TTFAD	VACD	EAKEE	VAEL	VEY	LRPE	SREK	LGKG	KEPKG	VILM	GPPG
PASlp	694	IKWGD	IGAL	ANAK	DVLL	ETLEW	TKYE	PIE	VNCP	LRLS	GI	LYG
NSF	224	EKMGI	GGLD	KEFS	DI	FRRA	FASR	VFP	EIVE	QMGCK	HKV	KGIL
p60	280	KTML	AKAV	ATEC	GTTF	FFN	VSSA	SLTS	KYHG	SESE	KIVRL	LLFEM
mei-1	239	KTLL	ARAI	ASESS	STFT		VSSD	TLSS	KWRG	DESE	KIVRL	LLFEL
Suglp	195	KTLL	ARAV	AHHT	DCKE	FIR	VSGA	ELVQ	YICE	SSRM	VREL	FVMA
ftsh	198	KTLL	AKAI	IAGE	AKVP	FFT	ISGS	DFVEM	FVGV	GASR	VRDM	FEQA
PASlp	744	KTLL	ASAV	ADQC	GLNE	IS	MGPE	ILNK	FI	IGASE	ONTRE	LEFRA
NSF	274	KTLL	ARQI	GKML	NARE	PKV	NGPE	ILNK	YVGE	SEAN	IRKLE	FLADA
p60	328											
mei-1	287											
Suglp	243											
ftsh	246											
PASlp	792											
NSF	324											
p60	369	SAGE	ESSK	MMV	LAAT	NFP	WD	IDEA	LR		RLEK	RIYIP
mei-1	324	SQNK	FDSR	RVF	LAAT	NIP	WEI	DEA	LR		RFEK	RIFIP
Suglp	285											
ftsh	288											
PASlp	832											
NSF	373											
p60	417	RINL										
mei-1	372	EKSM										
Suglp	329	RIHS										
ftsh	332	KVHM										
PASlp	875	QAI	VNSK	DKD	TGQ	KFA	LEK	NA	LKLI	AEKTA	GFS	FADLQ
NSF	416	HI										

FIG. 1B.

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1      MSVDEICENTKMGREYALLGNYETSLVYYQGVYQQIQKLL
41     TSVHEPQRKHQWQTIRQELSQEYEHVKNITKTNLNGFKSEP
81     AAPEPAPNHRAAPFSHHQHAAKPAAAEPARDPDVWPPPTP
121    VDHRPSPFPYQRAARKDPPRRSEPSKPANRAPGNDRGGRG
161    SDRRGDARSGGGGGRGARGSDKDKNRGGKSDKDKKAPSGE
201    EGDEKKFDPAGYDKDLVENLERDIVQRNPNYHWADIAGLT
241    EAKRLLEEAVVLPLPWMPDYFKGIRRPWKGVLMVGEEGTGR
281    TMLAKAVATECGTTFFNVSSASLTSKYHGESEKLVRLLEF
321    HARFYAPSTIFIDEIDSICSKRGTGSEHEASRRVKSELLI
361    QNDGVSGPSAGEESSKMVMVLAATNFPWDIDEALRRRLEK
401    RIYIPLPEIDGREQLLRINLKEVPLADDIDLKSIAEKMDG
441    YSGADITNVCRDASHMANRRRIQGLRPEEIRHIPKEELNQ
481    PSTPADFLLALQKYSKSVGKEDLVKYMAWNEEFGSV

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p60	231	VHWADIAALTEAKRLLEAAVVLGLWMDYKGGIRRPW..KGVLMYGEPIGEG
mei-1	190	MSLDDIIGMHVDVQVYLHEAVTLGLLVPEFSGQLRSPW..KAMVLA GEPGEG
Sug1p	145	STYDMVGLTKQIKEIKEVIELGVKHDELDES LGIAQPKGVILY GEPGEG
ftsH	149	TTFAMVAGCDEAKEEVAVLVEY..LREPSREQKLGKKIPGVILY GEPGEG
Pas1p	694	IKWGDIGALANAKDVLLETLEWETKYEPIGVNCLRLRSGILY GYPGCG
NSF	224	EKMIGIGGLDKEFSDIFRRASFVPEEIVEQMGCKHVGLILY GEPGCG
p60	280	KTMLEAKAVATECGTTFEN..VSSASLTSKYHGESEKLYRLLEFMARFYAE
mei-1	239	KTMILARALASESSSTET..VSTDLSSKWRGSEKIMRLLELARFYAE
Sug1p	195	KTMELARAVAHHTDCKEIR..ESGAEVLQVYIGEGRMYREFFVMAREHAE
ftsH	198	KTMELAKALAGEAKYPEFT..IGGSDFVENFVGVGASRVYRDMEEQAKKAAR
Pas1p	744	KTMELASAVAQQCGLNEIS..VKGPEILNKEIGASEQNIREMERAQSVKE
NSF	274	KTMELARQIGKMLNAREPKVYNGPEILNKEYVGESEANIRKLEADAEERQR
p60	328SILEIDEDIDSTCKR..GTGSEHEASREYKSEFLIQMDGVSGP
mei-1	287SILEIDEDIDTLGGQR..GNSGEHEASREYKSEFLVQMDG...
Sug1p	243SILEIDEDIDSTGSTRVEGSGGDSEYQETHLEILNQLDGFEET
ftsH	246CILEIDEDIDAVGRQRGAGLGGGHDEREQTNLNQLVEMDGFEG
Pas1p	792CILEFDEEDSTAPKRGH...DSTGYTDEYVQNQLIQMDGAEGL
NSF	324	LGANSGLHLEIFDEIDATCKQRS..MAGSTGVHDTVVNQLSKIDGVEQL
p60	369	SAGEESSKNMYFLAATNFEWDIDEALLR..RLEKRIYIPLEIDEGREQLL
mei-1	324	SQNKFDSSRYVFLAATNIEWELDEALLR..RFEKRIFIPLEIDIDARKKLI
Sug1p	285SKNIKIIMATNIDILDEALLREGRIDRKIEFPPEVAAARAEEL
ftsH	288NEGIIVIAATNREDVLDPEALLREGREDRQVYVGNQDVRGREQLL
Pas1p	832	D.....GVYILAATSRPDLIDSALLREGRLDKSVICNIPTESERLDEL
NSF	373	N.....NILWIGNTRPDLIDEALLREGRLLEVKNHEIGEPDEKGRLLQLL
p60	417	RINL.....KEYPLADDIDLKSIKKNMGYSGADIT
mei-1	372	EKSM.....EGTPKSDENYDDLAAETEGESGADYV
Sug1p	329	RIHS.....RKMNLTRGINLRKYAEKMGCSGADV
ftsH	332	KVHM.....RRVPLAPDIDAAILARGTPEESGADLA
Pas1p	875	QAIYNSKDKDTGQKKFALEKNADLKLIAEKTAJESGADLQ
NSF	416	HI.....HTARMRGHQ..LLSADVDIKELAVEIKNESGAELE